RESPON FISIO-MORFOLOGI TANAMAN KACANG TUNGGAK (*Vigna unguiculata* L.) PADA BERBAGAI KADAR LENGAS TANAH

PHYSIOMORPHOLOGIS RESPONSE OF COWPEA (*Vigna unguiculata* L.) AT VARIOUS OF SOIL MOISTURE CONTENT

Siti Hanifah
Ir. Agus Nugroho Setiawan, M.P. / Ir. Sarjiyah, M.S.
Department Of Agrotechnology Faculty Of Agriculture
Universitas Muhammadiyah Yogyakarta

ABSTRACT

A research was carried out to know morphophysiologis character and soil moisture content tolerance of cowpea at various of growth stages. The research was conducted at Green House and Research Laboratory of Agriculture Faculty of Universitas Muhammadiyah Yogyakarta from January to April 2016.

The research was arranged in a field research method with one factor design in a Completely Randome Design. The traetment was consisted of soil moisture content i.e. 100%, 75%, 50%, 25% of water were each add in vegetatif stage, flowering stage and podding stage.

The result of the researh showed that soil moisture content at various of growth stages has non significant influence to physiomorphologis character of cowpea, except to flowering dates and relative growth rate in vegetatif stage. Soil moisture content at 25% of water was significant to accelerated of flowering dates and significant to decreased of relative growth rate. Cowpea has tolerance to soil moisture content until 25% of water at various of growth stages.

Keywords: physiomorphologis, soil moisture content, growth stages, cowpea